

WHAT IS CLAIMED IS:

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1. An optical device comprising a first optical coating plane and a second optical coating plane for respectively reflecting a first light and a second light to an identical optical axis.

5 2. The optical device according to claim 1, wherein said optical device is used for an optical read/write head. P

3. The optical device according to claim 1, wherein said first light is a laser beam.

4. The optical device according to claim 1, wherein said second light is a
10 laser beam.

5. The optical device according to claim 1, wherein said first optical coating plane is parallel to said second optical coating plane.

6. The optical device according to claim 1, wherein said first light and said second light are generated respectively at different timing.

15 7. The optical device according to claim 1, wherein said first light is directly reflected to said optical axis by said first optical coating plane, and said second light passes through said first optical coating plane and then said second light is reflected to said optical axis by said second optical coating plane.

20 8. The optical device according to claim 1, wherein said first optical coating plane and said second optical coating plane are respectively coated on two opposite sides of a first light-penetrable material.

9. The optical device according to claim 8, further comprising a second light-penetrable material for reflecting a third light to said optical axis.

25 10. The optical device according to claim 9, wherein a third optical coating plane is coated on said second light-penetrable material, and said third light passes through said first optical coating plane and said second

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optical coating plane and then said third light is reflected to said optical axis by said third optical coating plane.

11. An optical device comprising plural optical coating planes for reflecting plural laser beams to an identical optical axis.

5 12. An optical device comprising a first optical coating plane and a second optical coating plane coated on two opposite sides of a light-penetrable material for reflecting a first light and a second light to an identical optical axis.

10 13. The optical device according to claim 12, further comprising a second light-penetrable material for reflecting a third light to said optical axis.

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